

JAMES

Page 1

IN THE UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF DELAWARE

IN RE: ADAMS GOLF, INC. :
SECURITIES LITIGATION :

X

ORAL DEPOSITION

OF

CHRISTOPHER M. JAMES

Friday, August 11, 2006

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Oral deposition of CHRISTOPHER M.
JAMES, held at the offices of AKIN GUMP
STRAUSS HAUSER & FELD, LLP, 590 Madison Avenue,
New York, New York, commencing at 8:30 a.m.,
reported by Pamela Harrison, RMR, CRR, CSR and
Notary Public.

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CHRISTOPHER M. JAMES

Page 22	Page 24
<p>1 Q. Okay.</p> <p>2 A. -- Page 3.</p> <p>3 Q. Okay. Please.</p> <p>4 A. So the paper entitled "A VARMA,"</p> <p>5 V-A-R-M-A, "Analysis of the Causal Relations</p> <p>6 Among Stock Returns, Real Activity (sic) and</p> <p>7 Nominal Interest Rates."</p> <p>8 My recollection is that that is</p> <p>9 an analysis because the data I believe are</p> <p>10 available, the real output and interest rate</p> <p>11 information is available, on a monthly basis</p> <p>12 that uses a monthly frequency. That would be</p> <p>13 an example.</p> <p>14 Q. Good.</p> <p>15 Any other examples?</p> <p>16 A. As I sit here, I don't recall</p> <p>17 one off the top of my head; although, I would</p> <p>18 again say that the frequency with which the data</p> <p>19 are available will determine the sort of</p> <p>20 frequency with which the analysis is done</p> <p>21 typically.</p> <p>22 Q. Doctor, I understand that's the</p> <p>23 position you take. What I'm asking is whether</p> <p>24 there is any other support beyond this article</p>	<p>1 returns or other variables of interest. And</p> <p>2 again, what you would find is, if the frequency</p> <p>3 of the data is available on a monthly basis for,</p> <p>4 say, the independent variable, then that would</p> <p>5 be the frequency with which -- the minimum</p> <p>6 frequency with which you could undertake the</p> <p>7 analysis.</p> <p>8 Q. Sure.</p> <p>9 Now, this recent literature you</p> <p>10 refer to, who wrote it?</p> <p>11 A. Oh, the contributors would be --</p> <p>12 certainly Eugene Fama has done some recent work</p> <p>13 in this area.</p> <p>14 Q. Spell it, please.</p> <p>15 A. Fama, F-A-M-A.</p> <p>16 Others would be Eric Maskin,</p> <p>17 Maskin, M-A-S-K-I-N. Those are the two names</p> <p>18 that come to mind.</p> <p>19 Q. That's very helpful.</p> <p>20 What did they write with</p> <p>21 respect to this purported convention?</p> <p>22 A. Well, I'm referring to their</p> <p>23 work on the relationship between, say,</p> <p>24 macroeconomic activity and various variables of</p>
Page 23	Page 25
<p>1 you just pointed to.</p> <p>2 A. There's other support in the</p> <p>3 references in that article we've provided,</p> <p>4 there's more support.</p> <p>5 Q. 1985 article. Any support since</p> <p>6 1985? Unless that's a typo. I thought I was</p> <p>7 reading that it was a 1985 article. Maybe</p> <p>8 that's a typo.</p> <p>9 A. No, it is a 1985 article.</p> <p>10 Q. So if I'm understanding you</p> <p>11 correctly, one could read the article, which I</p> <p>12 haven't, but I will, and find support for using</p> <p>13 this -- support for the convention you</p> <p>14 described.</p> <p>15 Is there any other place that</p> <p>16 one might go to find support for using that</p> <p>17 convention?</p> <p>18 A. Certainly. You could -- I</p> <p>19 would -- to provide you additional support would</p> <p>20 be to look at recent literature on the</p> <p>21 relationship between, say, economic activity and</p> <p>22 stock returns or relationship between interest</p> <p>23 rates and stock returns; the relationship</p> <p>24 between market share information and stock</p>	<p>1 interest. I know Eric has published in the</p> <p>2 Journal of Monetary Economics, the American</p> <p>3 Economic Review.</p> <p>4 Fama has published in the</p> <p>5 Journal of Finance, Journal of Financial</p> <p>6 Economics, The Review of Financial Studies.</p> <p>7 Q. I believe you said this is</p> <p>8 macroeconomic activity and various variables of</p> <p>9 interest, if I heard you correctly.</p> <p>10 A. That is what I indicated. And</p> <p>11 again, it's a very simple and intuitive concept</p> <p>12 that the frequency with which data becomes</p> <p>13 available will determine the minimum frequency</p> <p>14 with which you can undertake the analysis.</p> <p>15 Q. And I appreciate you telling me</p> <p>16 that before, but you were very clear.</p> <p>17 A. Good.</p> <p>18 Q. So even I have got that one</p> <p>19 down.</p> <p>20 So my question, however, is the</p> <p>21 work that Fama and Maskin have done, that you</p> <p>22 just referred to, which was recent work; eh?</p> <p>23 A. Yes, I think their work is</p> <p>24 within certainly the last five or ten years.</p>

7 (Pages 22 to 25)

CHRISTOPHER M. JAMES

Page 30	Page 32
<p>1 expected relationship between market share data 2 and the value of the company as identified in, 3 say, analyst reports. 4 Second, I followed the 5 convention which is reflected in some of the 6 work that I've done and in, as I sit here 7 today, the work of several authors that I 8 recall, which is that the frequency of data 9 availability, the minimum frequency of data 10 availability, determines the interval on which 11 you estimate a relationship. 12 I would add in addition to 13 that, in reviewing, say, the conference call 14 information that was a part of the Adams 15 Golf's discussion with analysts and market 16 participants, I recall questions regarding 17 market share data, and I recall, I believe it 18 was Barney Adams indicating that the 19 contemporaneous market share data were not 20 available as of the end of the month. 21 So as I sit here those are the 22 items that I recall that are in support of the 23 frequency and the lag structure that under -- 24 that is associated with the regression</p>	<p>1 recollection that the -- I followed the 2 convention of using -- analyzing the data at the 3 frequency with which it became available. 4 MR. COLLINS: Would you be kind 5 enough to read my question back, 6 because I'm sure you meant to, but I 7 don't think you answered my question. 8 Please. 9 (The court reporter read the 10 record as follows: 11 "QUESTION: Now, with regard to 12 that VARMA article, was that a 13 situation in which you used the 14 convention or in which you provided 15 cogent reasons as to why the convention 16 was appropriate to use, or both?") 17 THE WITNESS: Can I have my 18 answer back? 19 MR. COLLINS: Of course. 20 (The court reporter read the 21 record as follows: 22 "ANSWER: I would have to go back 23 and review the article. It's certainly 24 my recollection that the -- I followed</p>
Page 31	Page 33
<p>1 analyses in Exhibit-4. 2 Q. Anything else, as you sit here? 3 A. As I sit here, that's what I 4 recall. 5 Q. Now, in that answer you referred 6 to, quote, some of the work I've done, closed 7 quote. That meant, I presume, solely the VARMA 8 article from December '85 that you pointed to in 9 Exhibit-1 of your report, or did it include 10 something else? 11 A. It could certainly include other 12 of my works. I would have to go through and 13 determine the frequency of the data that I 14 utilized. For some of the papers I simply don't 15 recall whether the frequency was quarterly, 16 monthly, or weekly. 17 Q. Sure. 18 Now, with regard to that VARMA 19 article, was that a situation in which you 20 used the convention or in which you provided 21 cogent reasons as to why the convention was 22 appropriate to use, or both? 23 A. I would have to go back and 24 review the article. It's certainly my</p>	<p>1 the convention of using -- analyzing 2 the data at the frequency with which it 3 became available.") 4 BY MR. COLLINS: 5 Q. So did you use it or defend it, 6 or both? 7 A. I don't think I can answer your 8 question any better than I did before. As I 9 recall the article, I certainly used -- I 10 followed the convention of using the data at a 11 frequency with which it became available, and I 12 simply don't recall whether the article also 13 contains the defense for the use of that 14 frequency; in other words, saying, for example, 15 that we focus on a monthly analysis because of 16 the -- the data is available on a monthly basis. 17 Q. I appreciate that answer. 18 What was the information that 19 you addressed in the VARMA article that was 20 available on a monthly basis that you used? 21 A. I would have to go back and 22 look. I know that, as I recall, there is 23 information on -- we were looking at the 24 relationship between real activity inflation and</p>

9 (Pages 30 to 33)

CHRISTOPHER M. JAMES

Page 34	Page 36
<p>1 stock returns. I believe at that point in time</p> <p>2 inflation data, data on the Consumer Price</p> <p>3 Index, and GDP deflator are available on a</p> <p>4 monthly basis.</p> <p>5 Q. On a particular day each month?</p> <p>6 Please.</p> <p>7 A. I believe the inflation data is</p> <p>8 available on a monthly basis.</p> <p>9 Q. And the inflation data you dealt</p> <p>10 with in 1985, was that available on a particular</p> <p>11 date each month?</p> <p>12 A. Back then, I don't recall.</p> <p>13 Q. Okay. In your article, did you</p> <p>14 address the inflation data or some other data</p> <p>15 that was not available on a specific day each</p> <p>16 month but instead was available sometime during,</p> <p>17 say, an eight-day span each month?</p> <p>18 A. I'm not sure I understand your</p> <p>19 question. If you are asking me is the</p> <p>20 motivation for using monthly data because there</p> <p>21 was uncertainty regarding the date at which the</p> <p>22 data were available, that was not the</p> <p>23 motivation. The motivation was the frequency of</p> <p>24 the reporting data.</p>	<p>1 variations, which tend to be offsetting over a</p> <p>2 month, so that the analysis, when looking at</p> <p>3 the structural relationship, would focus on</p> <p>4 less high frequency data, say monthly, to have</p> <p>5 that randomness or noise filtered out. So,</p> <p>6 for example, you get better estimates of --</p> <p>7 better being greater explanatory power of</p> <p>8 estimates of beta if you want to understand</p> <p>9 the firm's risk characteristics using monthly</p> <p>10 as opposed to daily data.</p> <p>11 Q. I see. Well, this is helpful.</p> <p>12 So applied to golf club sales,</p> <p>13 for example, do I understand that that</p> <p>14 principle you just described means that if we</p> <p>15 want to know how Orlimar market share is</p> <p>16 progressing, going up or going down, in June</p> <p>17 of 1998, it's more meaningful to look at that</p> <p>18 on a monthly basis than to look at its market</p> <p>19 share day by day during the month of June?</p> <p>20 A. It would depend on the nature of</p> <p>21 the analysis that -- or the purpose of your</p> <p>22 analysis. Let me give you an example, perhaps,</p> <p>23 to clarify.</p> <p>24 If I were going to investigate</p>
Page 35	Page 37
<p>1 Q. I see.</p> <p>2 What was the motivation here</p> <p>3 for using monthly data as in Models 1 and 2 on</p> <p>4 Exhibit 12?</p> <p>5 A. Again, the one motivation was</p> <p>6 that that was the frequency with which the data</p> <p>7 were available.</p> <p>8 Another motivation would be,</p> <p>9 consistent with the analysis that was done in</p> <p>10 Exhibit 10, that if one is focusing on, say,</p> <p>11 the relationship between stock returns and</p> <p>12 market returns or stock returns and industry</p> <p>13 returns, there is a recognition, and I think</p> <p>14 you can find that recognition would be -- the</p> <p>15 source that comes to mind would be Ibbitson &</p> <p>16 Associates which provides information on</p> <p>17 betas, Barra would be another source of</p> <p>18 information on betas, that monthly analyses</p> <p>19 are useful in identifying more structural</p> <p>20 relationships. And the reason for that is</p> <p>21 that the monthly data is an aggregate of, say,</p> <p>22 daily information which contains -- can</p> <p>23 contain what an econometrician would call</p> <p>24 noise, which is referring to random</p>	<p>1 materiality, say, of whether -- the fed</p> <p>2 interest rate policy, I would -- one part of</p> <p>3 that analysis would be to look at the day in</p> <p>4 which the fed announces that it is going to</p> <p>5 either leave interest rates the same, increase</p> <p>6 them, or decrease them, and I could assess</p> <p>7 with that daily information the materiality of</p> <p>8 that decision to move interest rates.</p> <p>9 If I were to ask a different</p> <p>10 question, say, what is the relationship</p> <p>11 between stock returns and, say, interest rate</p> <p>12 movements and other aggregate economic</p> <p>13 variables, then I might -- and I have, as</p> <p>14 indicated in that paper (indicating) -- use a</p> <p>15 monthly frequency, and the reasons for using</p> <p>16 monthly frequency is that I'm asking a</p> <p>17 different question. Rather than ask the</p> <p>18 question of what the materiality or impact of</p> <p>19 the fed policy is on a particular day, I ask</p> <p>20 what's the general relationship that I have a</p> <p>21 hypothesis concerning, such as interest rates</p> <p>22 and stock returns are inversely related. Then</p> <p>23 I would -- it's my opinion it would be more</p> <p>24 appropriate to utilize a less frequent data</p>

10 (Pages 34 to 37)

CHRISTOPHER M. JAMES

Page 90	Page 92
<p>1 Q. Adams declined some, and the S&P 2 small cap and Callaway declined more -- is that 3 right so far? -- on or about July 23rd. 4 A. If you said Callaway and the 5 peer group? 6 Q. Yes. 7 A. I think you may have said -- 8 Q. You know what, let me start 9 again. You are quite right. 10 Am I reading this correctly 11 that on July 23rd both Callaway and the peer 12 group went down sharply and roughly in tandem? 13 A. Yes. I think if you go to the 14 next exhibit, it might be easier. 15 Q. Okay. 16 A. 340. 17 Q. Okay. 18 A. Which has the dates and the 19 price decline. So on 7/23/1998, Adams is down 20 13 percent -- about roughly 13 percent; Callaway 21 is down 33 percent; and Miller's peer group is 22 down 28.2 percent. 23 Q. I see. 24 Now, Miller's peer group, do</p>	<p>1 A. I used the peer group return as 2 reported by Mr. Miller in his rebuttal report. 3 My recollection is I could come 4 close but not exactly match the peer returns 5 by taking the -- the peer group return by 6 taking a value weighted average of the 7 individuals within the group. 8 Q. What do you mean by "value 9 weighted average"? 10 A. I was responding to the question 11 you just asked, was it a value weighted average 12 or an equally weighted average of the returns. 13 I can come close to, if I use 14 value weights, come close to the returns that 15 he had. 16 Q. That's fine. And I'm just 17 asking you what you did in using the value 18 weights, what process did you go through and 19 what specifically, specifically what value did 20 you weight. 21 A. The market value of the common 22 stock. 23 THE WITNESS: And I apologize, 24 but I need to take a short break.</p>
Page 91	Page 93
<p>1 you know whether it included Callaway? 2 A. It did. 3 Q. And was the peer group -- the 4 peer group was comprised of how many companies? 5 A. I believe it was -- it consisted 6 of Callaway, Teardrop, Aldila -- 7 THE COURT REPORTER: Callaway, 8 comma Teardrop? 9 THE WITNESS: It might help, 10 it's on the top line on the first page of 11 Mr. Miller's report. 12 BY MR. COLLINS: 13 Q. Okay. 14 A. I can read these off, but it may 15 be helpful for the court reporter just to look 16 at them. 17 It would be Callaway, Teardrop, 18 Aldila, Coastcast, Arnold Palmer, and Golden 19 Bear. 20 Q. Now, as you used the peer group 21 on Exhibits 339 and 340, was it a weighted group 22 or was it unweighted, based on the size or the 23 market caps or some other characteristics of the 24 companies making up the peer group?</p>	<p>1 MR. COLLINS: Off the record. 2 (A recess was had from 3 11:23 a.m. to 11:33 a.m.; and then the 4 proceedings continued as follows.) 5 BY MR. COLLINS: 6 Q. Exhibit 339. 7 A. Okay. 8 Q. Why did you do this just for the 9 month of July? 10 A. Because Mr. Miller indicated in 11 his rebuttal report that it is his conjecture 12 that the price decline, particularly in the 13 latter part of July, was attributable to, I 14 think he refers to it as leakage regarding gray 15 market activities. 16 Q. Is there something about Exhibit 17 339 or Exhibit 340 that leads you to question 18 that conclusion on his part? 19 A. I think that -- yes, I think 20 that this analysis demonstrates, using his data, 21 that the decline in Adams Golf during this 22 period of time was certainly in line with the 23 decline experienced by its -- the firms 24 identified by Mr. Miller as being peers to Adams</p>

24 (Pages 90 to 93)

CHRISTOPHER M. JAMES

Page 94	Page 96
<p>1 Golf, and that consistent with the discussion in 2 my report, the decline appears to be a result 3 principally of softness in the golf industry as 4 reflected by the earnings miss and discussion of 5 difficulties in the market that Callaway 6 disclosed, and then the peer group -- I think 7 Coastcast has a news article during that same 8 period of time indicating same weakness in 9 product demand, which I think is consistent with 10 the announcement of Callaway, since Coastcast is 11 a major supplier to Callaway. 12 Q. Did you undertake -- the 13 analysis of these various stock prices, did you 14 do any work taking it out beyond July 31st? 15 A. No. I -- you mean -- 16 Q. Did you run the chart beyond 17 July 31st? 18 A. No, I just focused on the dates 19 in -- the dates that he identified as being 20 associated with price declines in late July that 21 he contends may be associated with information 22 disclosures regarding -- or leakage of 23 information regarding, say, purchase orders by 24 Costco.</p>	<p>1 late July, is the period that he focuses in on 2 his report. 3 Just to add that he -- and the 4 other reason is that he has a chart, I believe 5 it's -- if you don't mind, I'll take it off. 6 (The witness takes the clip off 7 the document.) 8 BY MR. COLLINS: 9 Q. Please. 10 A. That is a -- that has a somewhat 11 different pegging in the sense that it's pegged 12 to 1. It's his Exhibit A. It's entitled ADGO 13 versus XLC(4), Adams Golf versus Comparable 14 Index. He carries it out to -- 12/23/1999 is 15 the last date. 16 Q. You are referring to the page 17 immediately after the page that says Exhibit A, 18 or are you referring to a later? 19 Which chart are you referring 20 to, please? 21 A. I know this is -- it doesn't 22 make the record look particularly good because 23 I'm holding something up, but it is this chart 24 (indicating), and I believe you are looking at</p>
Page 95	Page 97
<p>1 Q. And in that regard you are 2 referring to the information he has -- perhaps 3 other places as well, but you are referring to 4 the information he has in Paragraph 22(A) of his 5 rebuttal report? 6 A. 22(A), yes. 7 Q. Now, how long ago did you 8 prepare exhibits or did you create the documents 9 that are now 339 and 340? 10 A. Within the last week. 11 Q. Did counsel ask you to do so? 12 A. No. 13 Q. Did you tell counsel you were 14 doing this? 15 A. Yes. 16 Q. Did you run any other charts 17 beyond 339 either within the last week or since 18 the rebuttal report? 19 A. I don't believe so. I don't 20 recall doing any. 21 Q. And did you undertake an 22 analysis of peer performance with respect to 23 August or September? 24 A. No, my focus was only on late --</p>	<p>1 it. 2 MS. FOX: Let me just check 3 that. I'll come around and see whether 4 it's the same. 5 THE WITNESS: Just so you are 6 clear, there appears to be two charts 7 in his Exhibit A. One is -- it looks 8 like they are the same chart. One is 9 simply, in my version, a smaller 10 version of the other. 11 BY MR. COLLINS: 12 Q. Okay. Well, the chart -- 13 A. This you can identify -- 14 Q. Not a problem. 15 A. Okay. 16 Q. Do you see the page that says on 17 it Exhibit A? It's probably in your left hand. 18 A. Yeah, the problem I'm having is 19 that there are a number of pages that say 20 Exhibit A on it. Okay? Maybe we can make this 21 easier. 22 This is Exhibit A (indicating), 23 it only has Exhibit A on it. Then there is a 24 page that follows it which is a --</p>

25 (Pages 94 to 97)

CHRISTOPHER M. JAMES

Page 110	Page 112
<p>1 think are in Exhibit 4, I believe I did the same 2 thing with respect to -- I simply -- my 3 recollection -- here's what I can recall. 4 I did one-factor and two-factor 5 models to see if the explanatory power was any 6 different or the R-squareds were any 7 different, that's what I recall. And I recall 8 concluding based on that analysis that there 9 weren't any difference, that my results would 10 not change if I substituted the S&P index for 11 the NASDAQ, for example. 12 Q. In constructing an index, one of 13 the things a researcher does is try to find a 14 good fit; correct? 15 A. That -- that depends on the 16 purpose. I mean, typically it is not -- if 17 you're simply looking for a good fit without any 18 a priori reason for including a variable in a 19 regression, then that is thought of as data 20 mining and is not generally accepted as a 21 scientific inquiry. 22 One begins with a hypothesis 23 about what relationship should be expected and 24 then empirically tests that relationship and</p>	<p>1 NYCE index. 2 Q. In your last answer you referred 3 to growth stocks. Did you consider Adams to be 4 a growth stock? 5 A. Yes, I think it was generally 6 considered to be a type of stock that would be 7 considered to be a growth stock. 8 Q. Did you consider it to be a tech 9 stock, a high tech stock? 10 A. No, I think I considered it to 11 be a growth stock. 12 Q. Now, at the time you used 13 NASDAQ, did you consider any other index besides 14 this modified Bloomberg golf? 15 A. No. 16 Q. Did you -- you didn't consider 17 the Dow Jones? 18 A. Industrial? 19 Q. Yes. 20 A. No. 21 Q. You didn't consider S&P 500 or 22 S&P small cap? 23 A. I didn't consider S&P 500, I 24 didn't consider the Dow Jones, I didn't consider</p>
Page 111	Page 113
<p>1 set up the experiment in a way that can be 2 replicated by a third party utilizing the 3 techniques that you have described. 4 Q. Okay. Why did you use NASDAQ? 5 A. Well, because Adams was trading 6 on the OTC or NASDAQ. 7 Q. Any other reason? 8 A. It's my practice if you want to 9 look at general market movements, the index you 10 use where you would expect to see a relationship 11 would be companies that are trading on a similar 12 exchange. 13 Q. And it's true that the NASDAQ, 14 as Mr. Miller pointed out in his rebuttal, it's 15 true that at the time the NASDAQ was dominated 16 by high tech companies; correct? 17 A. I don't know what he means by 18 "dominated." Certainly the NASDAQ is more 19 heavily weighted towards growth companies at 20 this particular point in time, which was before 21 the '99 run-up in tech stocks. It was -- I 22 mean, certainly the NASDAQ is more heavily 23 weighted towards tech and growth stocks than, 24 say, the Dow Jones Industrial Average or the</p>	<p>1 the S&P small cap. 2 Q. Okay. Apart from NASDAQ, 3 modified Bloomberg golf, and apart from the two 4 of those together, did you do runs or 5 regressions on using any other indices? 6 A. Other than the -- no, other than 7 the analysis that we were just talking about a 8 moment ago. 9 Q. And by that analysis you are 10 referring to the analysis done after 11 Mr. Miller's rebuttal report -- 12 A. Yes. 13 Q. -- using the Miller peer group, 14 or what you call that, and the S&P small cap? 15 A. Yes. 16 Q. Okay. Let's talk about event 17 windows. What is an event window, please? 18 A. I'm sorry? 19 Q. What is an event window? 20 A. An event window and is commonly 21 referred -- the most common definition of an 22 event window is the time period over which 23 someone undertaking an event study investigates 24 the impact of information on stock prices or</p>

29 (Pages 110 to 113)

CHRISTOPHER M. JAMES

Page 138	Page 140
<p>1 estimation period, is it true that the lower the 2 stock price during the estimation period, the 3 lower the level of statistical significance? 4 A. Not necessarily. 5 Q. It isn't true that the lower the 6 stock price, the lower the level of statistical 7 significance? 8 A. No, I don't see -- I don't know 9 of anything that would -- both conceptually or 10 any written work that would suggest that there 11 is a relationship between the significance of 12 the explanatory power of the market model and 13 the level of the stock price. 14 Q. The lower the stock price in 15 general, the smaller movement in the stock price 16 for the movement to be statistically 17 significant, correct, at least if one refers to 18 movement in an absolute as opposed to percentage 19 matter? 20 A. I'm not sure I understand. What 21 is your question? 22 Q. The stock price is lower. All 23 right? 24 A. Right.</p>	<p>1 Q. Yes. 2 A. -- am I likely to find -- am I 3 less likely to find statistical significance 4 than if I used an estimation period in which the 5 price in absolute terms were higher? 6 Q. Either less likely or more 7 likely. 8 A. It would -- frankly, it would 9 depend on the circumstances. I mean, I -- you 10 may be trying to get at the notion that there's 11 sort of a minimum tick size and then as the 12 price of a stock goes down, given that minimum 13 tick size, the percentage change increases, and 14 so if you had a very low price stock and you 15 estimated a market model and then you used it to 16 predict abnormal returns when the stock was 17 appreciably higher, it would depend on whether 18 the underlying volatility had changed, but that 19 -- I think it would depend on the circumstances, 20 frankly. 21 Q. If you could go back to Exhibit 22 12 of your report, please. 23 A. Exhibit 12? 24 Q. Please.</p>
Page 139	Page 141
<p>1 Q. If the stock price is lower, in 2 this case in connection with the estimation 3 period, then in order for a stock price movement 4 during a period under study to be statistically 5 significant, isn't it true that the movement 6 needs to be smaller in an absolute sense in 7 order for the level of statistical significance 8 to be reached? 9 A. If you're -- are you asking me 10 whether there's any relationship between the 11 level of the stock price and the likelihood that 12 a particular return would be statistically 13 significant? 14 Q. I am, but my question is 15 directed to the level of the stock price during 16 the estimation period. 17 A. I'm just trying to understand 18 your question because I -- so you're asking if I 19 estimate a market model over a period of time 20 when the price is relatively low -- 21 Q. Correct. 22 A. -- and use that to assess 23 statistical significance during the period when 24 the stock price is higher --</p>	<p>1 A. Okay. 2 Q. Now, you ran these regressions, 3 Models 1 and Model 2 -- 4 A. Right. 5 Q. -- over the 18-month period that 6 you described previously. 7 A. Right. 8 Q. Why did you choose to do that 9 over 18 months? 10 A. As I discuss in the report, I 11 wanted to analyze the relationship over a period 12 of time that would include the class period. If 13 I restricted my analysis only to the class 14 period, then I would have only three 15 observations on which to estimate it, and 16 typically that is not enough data on which to 17 estimate a regression with any degree of 18 reliability. 19 Q. Okay. So if you had undertaken 20 the same analysis as described -- referenced in 21 Exhibit 12 and if you had restricted it to the 22 class period, you believe that any results from 23 that regression or those regressions would have 24 been unreliable had you done that?</p>

36 (Pages 138 to 141)

CHRISTOPHER M. JAMES

Page 142	Page 144
<p>1 A. Well, I think it's just a matter 2 of mechanics, that with only three observations, 3 the estimates would be less reliable than if you 4 used a greater number of observations. 5 Q. All right. 6 A. So, I mean, it's not specific to 7 limiting it to the class period. If you asked 8 me if I have one variable and one or two 9 explanatory variables and I'm trying to estimate 10 a relationship between the dependent variable 11 and those explanatory variables, would I have 12 more confidence in a regression with 18 13 observations as opposed to three, yes, I would, 14 and that's the motivation for using a greater 15 number of observations. 16 Q. So what Exhibit 12 and your 17 regressions reflect is the stock price over an 18 18-month period, but they don't reflect the 19 stock price versus relative market share for any 20 particular subgroup of that 18-month period; is 21 that accurate? 22 A. No, I think that certainly the 23 information over each of the subperiods is 24 included in and considered as part of the</p>	<p>1 attempting to do, the question is why -- what 2 reasons can one provide for the decline in the 3 price of Adams during the class period, and 4 one knows that both conceptually and 5 empirically there is a relationship between 6 Adams Golf stock price and its market share, 7 then I think that's relevant for purposes of 8 explaining what moved the stock price. 9 Q. In your last answer, if you had 10 substituted relative market share for numbers of 11 clubs sold through the gray market, would that 12 also have been a regression or a pair of 13 regressions that could, had you chosen to run 14 them, conceivably provided statistical support 15 for observations made by market participants in 16 or around the time of the class period? 17 A. No, for the following reason, 18 what is motivating this analysis is an a priori 19 expectation based on the commentary of market 20 participants during the period that there's a 21 direct relationship between level of stock price 22 and market share. 23 And second, this is based upon 24 information that was publicly available and a</p>
Page 143	Page 145
<p>1 estimation of that -- of this regression. 2 Q. But the regression is an 3 18-month regression and we have a three-month 4 class period. 5 A. Right; so -- 6 Q. So my question, if I may, is, 7 what does a regression that provides information 8 with respect to a point in time two months or 9 nine months after the class period, what does 10 that regression have to do with predicting or 11 explaining stock movements during the first 12 three months of this 18-month period? 13 A. It is a -- it has everything to 14 do with that issue for the following reason. 15 That it's establishing what analysts that 16 followed Adams and other observers noted, which 17 was there is a direct relationship between 18 Adams' earning -- Adams Golf's earning stock 19 price and its relative market share. And this 20 is providing statistical support for that -- 21 that observation. There is -- using data both 22 during the class period and after the class 23 period. 24 So if, for example, as I was</p>	<p>1 part of the information available to market 2 participants. 3 Q. During the class period? 4 A. Both during the class period and 5 after the class period. And I'm not aware -- 6 first of all, I'm not aware of any analyst 7 commentary, for example, linking or suggesting a 8 link between the level of Adams' stock price and 9 the number of clubs sold in the gray market. 10 Q. Okay. 11 A. Nor am I aware of any 12 contemporaneous public information during the 13 class period, or for that matter, after the 14 class period, that provides a -- which was 15 publicly available, it provides the proportion 16 of sales in the gray market relative to total 17 sales. 18 Q. That's fine. 19 What difference does it make 20 whether it's publicly available or available 21 through non-public means if it's after the 22 class period; what possible bearing could that 23 have upon the usability of the information? 24 A. It is usable for the purpose of</p>

37 (Pages 142 to 145)

CHRISTOPHER M. JAMES

Page 218	Page 220
<p>1 Q. Stock return. 2 And how do you choose what 3 stock return you use? 4 A. Over the month? 5 Q. For each month. 6 A. It's from the close of the prior 7 month to the close of the current month, so it 8 would be the cumulative return over the month, 9 so all of the returns in the month are used. 10 All the daily returns are incorporated into the 11 monthly return. 12 Q. And for the monthly observation 13 for the industry index, how did you determine 14 that? 15 A. The same, the same way. So you 16 take each component of the industry -- I think 17 the index -- the Bloomberg index is on -- you 18 can -- I think -- I think I recall seeing it on 19 a level basis, you just take level prior month 20 -- level at the end of the month plus level at 21 the prior month divided by level at the prior 22 month will give you the return over that month, 23 the same way you calculate a return over the 24 month.</p>	<p>1 not be reflected; that would be washed out by 2 your monthly observation? 3 A. Yes, but it would be only 4 looking at how one could explain monthly 5 variations in the stock return relative to 6 monthly variations in the industry index. 7 Q. Why was the period under study 8 in Exhibit 10, why did that cut off at June 11? 9 A. You know, I looked at Exhibit 10 10 and I knew you were going to ask that question, 11 and I don't recall. I think it, frankly, might 12 be an oversight. 13 Q. "An oversight" meaning what? 14 A. On my part. So I need to go 15 back -- in just assembling this, as I sit here, 16 I don't recall why it ended in June of 1999. 17 Q. Did you consider -- and I 18 understand, I respect people that forget things, 19 I do that, too. But did you consider, if you 20 know, running the regression at Exhibit 10 21 through December '99 as you ran the regressions 22 in Exhibit 12? 23 A. I don't recall making a 24 distinction between June of 1999 and December of</p>
Page 219	Page 221
<p>1 Q. Why did you perform the 2 regression in Exhibit 10; what did that add to 3 the work you were doing otherwise? 4 A. I think we touched on this topic 5 this morning when we had a discussion of why 6 market participants and researchers utilize, 7 say, monthly returns. Remember I said if you 8 look at Ibbotson or Barra or other vendors of 9 what are called betas, how stock moves with the 10 market, those vendors may also have how stock 11 moves with industry comparables; that generally 12 that analysis -- not always, but typically that 13 analysis is done to figure out the influence of 14 general industry factors, is done on a monthly 15 basis as opposed to a daily basis for the 16 reasons I gave you before, which is that on a 17 monthly basis you are basically taking out a lot 18 of noise that occurs, what a statistician would 19 refer to as noise, on the daily returns due to 20 randomness. 21 Q. So, again, with regard to 22 Exhibit 10, if there were volatility in either 23 the index on an intramonth basis or in Adams 24 Golf stock on an intramonth basis, that would</p>	<p>1 1999, so as I sit here I don't recall making any 2 conscious decision to cut one analysis at 6/99 3 and the other analysis at year-end 1999. 4 Q. I want to go back to a couple of 5 points you raised earlier. First, you said that 6 you did consider a two-day event window in 7 response to the August 28, 1998, Lehman analyst 8 report; correct? 9 A. Right. 10 Q. Did you consider a three-day 11 event window? 12 A. No. 13 Q. Did you consider a two-day event 14 window with regard to any other periods of the 15 class period? 16 A. I don't recall that I did. 17 I do recall, as we mentioned 18 earlier today, doing an analysis in response 19 to something which was in Mr. Miller's report, 20 and that was he indicated -- he made two 21 points: First, that, you know, while I looked 22 at statistical significance at a 95 percent 23 level, I didn't look at the significance at 24 other levels. And, as I indicated in my</p>

56 (Pages 218 to 221)

CHRISTOPHER M. JAMES

Page 222	Page 224
<p>1 report, the 95 percent level is the 2 conventional level; although, some researchers 3 will report significance at a 10 percent 4 level. And so I examined whether there were 5 days that were significant at a 90 percent 6 level and what information was coming to the 7 market on those days.</p> <p>8 Second is in response to a 9 comment in his report concerning looking at the 10 returns over multiple days. I asked the 11 question of whether if the results and my 12 conclusions regarding statistical significance 13 and the information coming to the market on 14 those days would be altered if I used a two-day 15 window, and concluded that -- my conclusions 16 were the same whether I used a two-day window or 17 a one-day window for each of the events that I 18 analyzed.</p> <p>19 So if you take the Golf Pro 20 August 1st article and say, well, look at a 21 two-day window around that, would that alter 22 your conclusion regarding the statistical 23 significance, would using a 90 percent 24 confidence interval as opposed to a 95 percent</p>	<p>1 regarding -- there would be no reason to use a 2 multiple-day window more than two days for this 3 analysis because you would use that if you were 4 uncertain as -- you have a news announcement -- 5 we talked about this earlier today; if you had a 6 news announcement and you weren't sure whether 7 that news announcement was made -- you know what 8 day it was made on, but you don't know whether 9 it was during trading hours or not.</p> <p>10 Q. Sure.</p> <p>11 But you might also have new 12 information enter in the market or allegedly 13 new information enter in the market that might 14 be in the form of rumor or oral communication 15 which would be another situation in which you 16 were uncertain as to what the disclosure date 17 is. Correct?</p> <p>18 A. No, I would certainly think that 19 if there was an allegation that a rumor or oral 20 communication were material, that you would be 21 able to identify the date at which that 22 information became available to the market. I 23 would also say that -- and be able to relate it, 24 as I talked about earlier today, in an objective</p>
Page 223	Page 225
<p>1 confidence interval impact the conclusion, and 2 the answer to both of those questions is no.</p> <p>3 Q. Which events or which time 4 periods during the class period did you consider 5 using a multiple-day event window for?</p> <p>6 A. Every day.</p> <p>7 Q. Okay. And which events did you 8 consider using the 90 percent confidence level 9 for?</p> <p>10 A. Every day.</p> <p>11 Q. And how did you apply that using 12 every day? For example, if I can turn you to 13 Page Exhibit 5?</p> <p>14 A. Mm-hmm.</p> <p>15 Q. With regard to using a 16 multiple-day event window, what did you mean by 17 that; three days or five days?</p> <p>18 A. Two days.</p> <p>19 Q. Okay. You didn't look at 20 anything more than two days, did you?</p> <p>21 A. No, I had no information that 22 would indicate to me that the market would not 23 operate in an efficient way and I had no 24 information to me that indicated any uncertainty</p>	<p>1 scientific manner, to the price reaction.</p> <p>2 As I have indicated, oral 3 communication, as it would be in the context 4 of a conference call with investors, you would 5 look at the day on which that conference call 6 occurred, that oral communication, for 7 purposes of determining whether that 8 communication was material.</p> <p>9 Q. If it were a rumor, however, you 10 might not know when the rumor first started 11 circulating; correct?</p> <p>12 A. I think that's -- I mean, again, 13 it's -- and we went through this before -- I 14 would -- if I were asked to assess the 15 materiality of an alleged rumor, the first step 16 I would take is to try to determine when that 17 rumor was being utilized by market participants 18 for purposes of pricing or valuing the stock.</p> <p>19 I would also think that -- 20 there's certainly -- and I would -- I would 21 expect to see, if it was a rumor that was 22 material and significant to investors, that -- 23 as I indicated before, that there would be 24 some commentary on it, in some source.</p>

57 (Pages 222 to 225)

CHRISTOPHER M. JAMES

Page 230	Page 232
<p>1 circumstances in which the insider trading 2 occurred.</p> <p>3 Q. What would you need to know? Or 4 what would you need to suspect?</p> <p>5 A. I'm not -- I think I would have 6 to do a thorough analysis of the facts and 7 circumstances to reach a conclusion regarding 8 the importance of insider trading in a 9 particular case and I'm not prepared today to 10 analyze that issue.</p> <p>11 If I were asked, however, to 12 address the question of whether insider trades 13 had a material impact on the stock price, I 14 would do the following types of things: First 15 to determine, as I indicated before, whether 16 those insider trades were -- trading 17 information was available to market 18 participants; second, to determine the timing 19 of those trades; and, third, to assess whether 20 those trades are associated with a 21 statistically significant price movement.</p> <p>22 MR. COLLINS: All right, let's go 23 off the record. 24 (A recess was had from 4:27 p.m.</p>	<p>1 With respect to the analyst -- 2 the coverage by -- and institutional 3 ownership, that was probably the highest 4 immediately after the IPO. During the quiet 5 period, there would not be analyst coverage by 6 anyone -- any analyst affiliated with an 7 underwriter that was a part of the syndicate, 8 so that factor wouldn't be met.</p> <p>9 Q. It's your opinion that the 10 October 23 price reaction which was 11 statistically significant was not at all caused 12 by the introduction of new information into the 13 market with respect to gray marketing?</p> <p>14 A. I think I answered that 15 question, and my answer is -- I'll summarize 16 it -- that in my opinion the price reaction on 17 October the 22nd is a result of new information 18 and the new information contained in the report 19 has to do with fourth quarter earnings and 20 that's consistent with analyst commentary and 21 changes in their fourth quarter -- the change in 22 the fourth quarter consensus estimate. I have 23 not tried to parse out the extent to which. 24 And that was a result of the softness in the</p>
Page 231	Page 233
<p>1 to 4:45 p.m.; and then the proceedings 2 continued as follows:)</p> <p>3 BY MR. COLLINS:</p> <p>4 Q. When did the market become 5 efficient? Tell me the date.</p> <p>6 A. You mean the market for Adams 7 Golf stock?</p> <p>8 Q. Please.</p> <p>9 A. I believe it was -- the evidence 10 would suggest that it was certainly efficient -- 11 I think it's -- I haven't actually undertaken to 12 determine a specific date. Certainly I think it 13 would be reasonable to conclude that the market 14 was efficient at the time that it began trading.</p> <p>15 Q. Was there any impact of the 16 quiet period on that?</p> <p>17 A. The quiet period ended I believe 18 October -- August 4th. Certainly if I were 19 looking at simply the Cammer factors and asking 20 when are all of the Cammer factors met, the 21 trading volume was almost immediately -- it was 22 immediately. Number of market makers, it was 23 immediately. Speed of response to new 24 information appears to be immediate.</p>	<p>1 industry and softness in Adams sales as opposed 2 to industry factors, as opposed to, as was 3 referred to and talked about earlier, recent 4 gray market activities.</p> <p>5 What is clear to me is that it's 6 not a result of the market becoming aware of the 7 risks of the gray market activity, nor is it a 8 result of information regarding gray market 9 activity that was historical or contemporaneous 10 with the initial public offering.</p> <p>11 Q. Okay. So in your last answer 12 you drew a distinction, if I heard you 13 correctly, between the risk, if one existed, at 14 the time of the IPO in connection with gray 15 marketing, on the one hand, and, on the other 16 hand, gray marketing's impact, if any, on those 17 reduced analyst expectations for the fourth 18 quarter. Those are two different things in your 19 view.</p> <p>20 A. I think they are 21 distinguishable. I think what I was -- the 22 distinction that I was drawing and I drew, when 23 you asked me this question earlier in the day, 24 was that there is a distinction in my mind</p>

59 (Pages 230 to 233)

CHRISTOPHER M. JAMES

Page 254	Page 256
<p>1 Q. Are there models that can be 2 used that test materiality on the basis of 3 volume or some combination of volume and price 4 movement? 5 A. I mean, I have not seen that 6 analysis done in the context of, say, a damage 7 analysis. I have seen some academic studies 8 that ask the question of whether information has 9 an effect on trading volume. 10 Q. And do you have any opinion as 11 to the usability or appropriateness of those 12 models? 13 A. I think the appropriateness 14 would depend on the purpose of their being 15 used. I would have to go back and look at some 16 of those papers. Most of the paper -- the 17 academic literature in finance is more focused 18 on how information impacts value as opposed to 19 trading volume. Although, there are a few 20 papers out there that look at trading volume. I 21 just don't recall what the conclusions are. 22 Q. The famous Golf Pro article 23 allegedly of August or August 1, 1998, when was 24 that available to the market?</p>	<p>1 evidence, apart from what you've put in your 2 reports, to indicate when that Golf Pro article 3 was available? 4 A. Yes. 5 Q. When? 6 A. In response to the Miller report 7 where he conjectures that it might have been 8 available earlier, I performed the following 9 test. Based upon communications that I'm aware 10 of between Cornerstone and the publishers of 11 Golf Pro, which is now not currently published, 12 they were unable to answer the question as to 13 whether it was available before or after the 14 cover price -- cover date. 15 So I conducted a Factiva search 16 between 1995 and 2000 in which I used the 17 keywords "Golf Pro magazine," and then I 18 looked at all of the articles that were 19 available on Factiva that reference Golf Pro 20 magazine and asked the question of whether 21 there was any reference in the public press to 22 a Golf Pro magazine article prior to the 23 stated publication date on the cover, and I 24 was able to identify several instances in</p>
Page 255	Page 257
<p>1 A. As I indicate in my report, it's 2 my opinion that it's available to the market on 3 August 1st. 4 Q. Well, surely you're not offering 5 an opinion on that now, Dr. James, are you? 6 A. Yes, I am. 7 Q. You might be making an 8 assumption, but you are offering -- are you an 9 expert with regard to when Golf Pro appeared in 10 1998? 11 A. I'm not representing myself to 12 be an expert in when Golf Pro appeared. I am 13 representing myself to be an expert in, first of 14 all, knowing what the publication date and the 15 convention of using publication dates. I 16 believe your own expert uses the publication 17 date as the date referenced in his chronology. 18 Second, I undertook an 19 investigation to determine whether there was 20 any evidence that suggests that the Golf Pro 21 article was available prior to the cover day 22 and concluded based on that analysis that 23 there was none. 24 Q. Okay. Do you know of any</p>	<p>1 which there is a reference to a particular 2 issue of Golf Pro magazine, and all of the 3 references were after the publication date 4 which is consistent with -- which is 5 inconsistent with the conjecture by Mr. Miller 6 that the information was available to the 7 market prior to the cover date. 8 Q. Did you save those searches? 9 A. No. 10 Q. Did you communicate with your 11 office about providing to us information with 12 regard to the additional regressions you said 13 you would have? 14 A. I have -- it's not my office. 15 Q. Cornerstone. Whomever you had 16 to communicate with. 17 A. Yes, and the individual that is 18 available -- the individual who undertook that 19 analysis is not available, he's -- that's Amir 20 Rosen, and I believe he's attending a deposition 21 today. 22 Q. Not in this case? 23 A. Yes, I believe he's downstairs, 24 two stories down.</p>

65 (Pages 254 to 257)